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Independent Sample Test

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**Abstract**  
**Evaluate the Privatization Experience in the Jordanian**  
**Companies**

**Rabee Al-Malahmeh**

**Mu'tah University , 2008**

This research aims to study privatization through determine its concept, Analyze its objectives and consequences .The study also compared the performance .

This study aims to:

**First:** Discuss the concept of privatization.

**Second:** Analyze the objectives and consequences of privatization.

**Third:** Compare the performance of companies-privatized before and after privatization.

These companies include: Cement factories, Arab potash, Jordan national shipping lives, Express tourism.

The study employs to method, the first include calculating and analyzing the following: rate of return on capital (RR), labor productivity (LP), average cost. The second method conducts through estimating production and cost functions.

The main result of study:

**First:** There are positive effect for privatization on LP for cement and potash companies.

**Second:** There are positive effect for privatization on RR for potash, cement, and shipping companies.

**Third:** There are no effect for privatization on express tourism transportation performance.

**Forth:** Average total cost for potash and shipping have been effected by privatization, whereas cement do not.

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" (1997) :

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( Eckel et al . 1997 ) :

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%7

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63 (Dementer and Maltesta ,1997) :  
( 1992 -1981 )

21 79 ( Boubakri Cosset , 1998 ) :  
1992 1980

( Karl,1998 ) :

(James,1996) :

1992

. 1993

(Osman,2000) :

24

( Bian Min-Dau, 2000 )

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(1997-1985)  
/ (1138.521)  
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( 1 ) ..... =

( 1 )

/		/	
1112.000	1859	2067208	1985
1109.999	1617	1794869	1986
1444.357	1643	2373078	1987
1100.475	1617	1779468	1988
1190.631	1621	1930013	1989
335.977	1981	665571	1990
781.185	2144	1674861	1991
1137.406	2331	2651293	1992
1359.617	2528	3437113	1993
1336.631	2538	3392370	1994
1344.414	2540	3414812	1995
1350.842	2600	3512190	1996
1197.232	2715	3250484	1997
947.131	2578	2441705	1998
1360.769	2563	3487650	1999
1518.623	2506	3805670	2000
2144.651	1804	3868950	2001
2736.218	1427	3904583	2002
2354.269	1493	3514924	2003
2589.132	1509	3907000	2004
2744.912	1474	4046000	2005
2691.588	1474	3967400	2006

.(2006-1985 )

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1100 / 2500 1300

-1985) (1138.521)

.(2006-1998) (2120.810) (1997

(t=-4.655) (SPSS) (Independent Sample Test)

( $\alpha=0.05$ ) ( Sig =0.00)

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(1993 – 1989)

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2000 2006 1998

%12 ( 7253335)

( 2272694 )

( 2 ) ..... =

(2)

-1998) (0.111132) (1997-1985)  
 (Independent Sample Test) .(0.449868) (2006  
 (Sig =0.009) (t= -2.892)  
 . (α=0.05)

(2)

	/	/	
-0.012462	50000000	-623116	1985
0.077547	50000000	3877336	1986
0.156031	50000000	7801553	1987
0.079566	50000000	3978293	1988
-0.045713	50000000	-2285670	1989
-0.079529	50000000	-3976431	1990
0.088832	50000000	4441610	1991
0.170466	60444460	10303734	1992
0.317411	60444460	19185760	1993
0.191884	60444460	11598328	1994
0.173973	60444460	10515694	1995
0.155544	60444460	9401781	1996
0.171168	60444460	10346142	1997
0.095698	60444460	5784401	1998
0.143150	60444460	8652614	1999
0.056912	60444460	3439996	2000
0.151225	60444460	9140735	2001
0.270364	60444460	16342000	2002
0.445776	60444460	26944715	2003
0.862778	60444460	52150161	2004
1.110228	60444460	67107106	2005
0.912685	60444460	55166762	2006
.(2006-1985)			:

1991	(3)
(91861789)	
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	2006 (60007261)
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( 3 ) .....	=
(27.43)	
( t= -0.142)	(28.13)
( $\alpha=0.05$ )	(Sig =0.888)
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(3)

	/	/	
26.1540145	2067208	54065788	1985
21.7751312	1794869	39083508	1986
18.0505045	2373078	42835255	1987
20.8019891	1779468	37016474	1988
20.2023582	1930013	38990814	1989
71.1077721	665571	47327271	1990
31.6562461	1674861	53019812	1991
25.287052	2651293	67043384	1992
23.6639293	3437113	81335599	1993
19.3805104	3392370	65745862	1994
25.2866442	3414812	86349136	1995
25.0032965	3512190	87816328	1996
28.2609571	3250484	91861789	1997
34.281276	2441705	83704763	1998
22.6229303	3487650	78900863	1999
20.7634719	3805670	79018922	2000
22.8076822	3868950	88241782	2001
24.1808785	3904583	94416247	2002
30.440737	3514924	106996877	2003
25.9199503	3907000	101269246	2004
31.8621144	4046000	128914115	2005
40.3305089	3967400	160007261	2006
.(2006-1985)		:	

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(4501000 ) 1956

1958

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1993 (4) 2001  
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 (2000 –1993)  
 (2006 –2001)  
 (861.48189) (758.53578)  
 (Sig = 0.02) (t=- 3.917)  
 ( $\alpha = 0.05$ )  
 (4)

689.55943	1952	1346020	1993
726.43346	2134	1550209	1994
807.25805	2205	1780004	1995
789.50268	2236	1765328	1996
632.56256	2238	1415675	1997
667.66419	2287	1526948	1998
777.28411	2316	1800190	1999
846.05321	2293	1940000	2000
890.50432	2201	1960000	2001
894.76082	2195	1964000	2002
850.75922	2305	1961000	2003
864.24731	2232	1929000	2004
842.15370	2173	1830000	2005
855.48842	1986	1699000	2006
.(2006-1993)		:	

(5)

(1996-1993)

(31372000) 1997

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127

(2000–1993)

(2006–2001)

(0.1641504) (0.3049981)

( Independent Sample Test )

( t=-3.917)

.( $\alpha = 0.05$ ) (Sig = 0.002)

(5)

0.2406551	72450000	17435464	1993
0.2324457	83317500	19366792	1994
0.3151025	83317500	26253555	1995
0.3953311	83317500	32938000	1996
0.2031146	83317500	16923000	1997
0.2893150	83317500	24105000	1998
0.3765355	83317500	31372000	1999
0.3535152	83317500	29454000	2000
0.3389684	83317500	28242000	2001
0.1847391	83317500	15392000	2002
-0.6711555	83317500	-55919000	2003
0.3206769	83317500	26718000	2004
0.5167342	83317500	43053000	2005
0.4697573	83317500	39139000	2006
.(2006-1993)			:

(6)

1999

%78

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( 35.39705 )

(95.24361)

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( Independent Sample Test )

(t=- 4.027)

.( $\alpha = 0.05$ )

(Sig = 0.002)

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1.448105	1346020	1949178	1993
45.427190	1550209	70421639	1994
41.216596	1780004	73365705	1995
46.187225	1765328	81535602	1996
62.189415	1415675	88040000	1997
3.424478	1526948	5229000	1998
60.768108	1800190	109394141	1999
1.895361	1940000	3677000	2000
56.016974	1960000	109793269	2001
61.642566	1964000	121066000	2002
111.167772	1961000	218000000	2003
87.315189	1929000	168431000	2004
105.792350	1830000	193600000	2005
110.300177	1699000	187400000	2006

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.(2006-1993) :

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(91788.82) (2002-1998)

.(452889.59)

(2006-2003)

(Sig = 0.058)

( t = -2.262)

( $\alpha = 0.06$ )

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(7)

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28782.8571	42	1208880	1998
92410.9762	42	3881261	1999
138284.625	24	3318831	2000
109188.625	24	2620527	2001
90277	20	1805540	2002
137445	20	2748900	2003
212571.417	12	2550857	2004
532813.25	12	6393759	2005
928728.692	13	12073473	2006

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.(2006-1998)

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(8)

2000 – 1998

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2004 (2866689)

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(0.46853)

(2002-1998)

(-0.05577)

.(2006-2003)

(Sig = 0.066)

( t = -2.181)

( $\alpha = 0.07$ )

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(8)

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-0.04141108	6934570	-287168	1998
-0.16330919	6934570	-1132479	1999
-0.35602943	6934570	-2468911	2000
0.45241435	6934570	3137299	2001
-0.17051333	1200000	-204616	2002
0.758185	1200000	909822	2003
0.50902991	5750000	2926922	2004
0.7423246	8050000	5975713	2005
-0.13543412	12075000	-1635367	2006

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.(2006-1998) :

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(1.305543 )

(2006-2003)

(0.83711)

(2002-1998)

(Sig = 0.005)

(4.035)

( t )

.( $\alpha = 0.05$ )

(9)

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1.20296969	1208880	1454246	1998
1.34544031	3881261	5222005	1999
1.55039952	3318831	5145514	2000
1.1917744	2620527	3123077	2001
1.23713238	1805540	2233692	2002
0.82193132	2748900	2259407	2003
0.66894577	2550857	1706385	2004
0.73559138	6393759	4703194	2005
1.12196921	12073473	13546065	2006
.(2006-1998)			:

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1964



1995 300000 1966

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1999

(10)

2001 2000

1997

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1948

(22332.118)

(20225.726)

(Sig = 0.528) ( t = - 0.669)

.( $\alpha = 0.06$ )

( 10 )

19904.328	338	6727663	1999
22802.728	346	7889744	2000
24289.296	223	5416513	2001
22655.196	199	4508384	2002
11320.880	383	4335897	2003
22905.879	247	5657752	2004
21153.617	295	6240317	2005
23093.059	307	7089569	2006
.(2006-1999) / :			

(11)

2003 –2001

( 1496344 ) 2004

(1605864) (-109520) 2003

%10 1080000

(0.117667)  
 (t =- 0.009) (0.117319)  
 .(α = 0.05) (Sig=0.993)

(11)

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0.12388194	10800000	1337925	1999
0.17091537	10800000	1845886	2000
0.05820296	10800000	628592	2001
-0.02452472	10800000	-264867	2002
-0.01014074	10800000	-109520	2003
0.13855037	10800000	1496344	2004
0.52098806	10800000	5626671	2005
-0.03827861	10800000	-413409	2006

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2001 (12)

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(0.935904)

(0.791882)

(t = - 1.838)

.(α = 0.05)

(Sig=0.116)

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0.77583538	6727663	5219559	1999
0.73028453	7889744	5761758	2000
0.86952639	5416513	4709801	2001
0.96182069	4508384	4336257	2002
0.99658802	4335897	4321103	2003
0.82147733	5657752	4647715	2004
0.81281688	6240317	5072235	2005
1.08681727	7089569	7705066	2006

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.(2006-1999) / :

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: **1.4**

(Henderson,1980)

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$$Q = f(K, L, D) \dots\dots\dots (4)$$

(Q)

(K)

(L)

(D)

(1)

(0)

:

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$$Y = A k^{\alpha} L^{\beta} \dots\dots\dots (5)$$

:

$$\ln Y = \ln A + \alpha \ln K + \beta \ln L + c D \dots\dots\dots (6)$$

: A

$\alpha$  : مرونة الإنتاج بالنسبة لرأس المال.

B : مرونة الإنتاج بالنسبة للعمل.

C : أثر التخاصية.

وباستخدام البيانات في جدول (13) تم الحصول على البيانات التالية:

Ln Q	=	-62.281	- 0.5 Ln L	+	4.532 Ln k	- 0.0641 D
T			-1.617		4.819	-0.38
Sig			0.123		0.00	0.708
F	=	15.055			Sig = 0.00	
R <sup>2</sup>	=	0.715				
D-W	=	2.251				

T

(-1.617)

( 4.819)T

(4.53)

%1

.%4.53

%1

(K)

15 (F)

%71.5

(R<sup>2</sup>)

%1

D

D-W

:

**2.4**

:

$$ATC = F ( Q , D ) \dots\dots\dots ( 7 )$$

ATC

(Q)

(D)

(13)

TC	= 1.3*10 <sup>7</sup> + 19.346 Q + 1.8*10 <sup>7</sup> D	
T	3.612	1.776
Sig	0.002	0.092
F	= 20.176	Sig = 0.00
R <sup>2</sup>	= 0.68	
D-W	= 0.838	

3.612 (T)

%1

19.35

%1

20.176 (F)

%68

68

(R<sup>2</sup>)

D-W

D

%9

( 13)

:

54065788	-623116	50000000	1859	2067208	1985
39083508	3877336	50000000	1617	1794869	1986
42835255	7801553	50000000	1643	2373078	1987
37016474	3978293	50000000	1617	1779468	1988
38990814	-2285670	50000000	1621	1930013	1989
47327271	-3976431	50000000	1981	665571	1990
53019812	4441610	50000000	2144	1674861	1991
67043384	10303734	60444460	2331	2651293	1992
81335599	19185760	60444460	2528	3437113	1993
65745862	11598328	60444460	2538	3392370	1994
86349136	10515694	60444460	2540	3414812	1995
87816328	9401781	60444460	2600	3512190	1996
91861789	10346142	60444460	2715	3250484	1997
83704763	5784401	60444460	2578	2441705	1998
78900863	8652614	60444460	2563	3487650	1999
79018922	3439996	60444460	2506	3805670	2000
88241782	9140735	60444460	1804	3868950	2001
94416247	16342000	60444460	1427	3904583	2002
106996877	26944715	60444460	1493	3514924	2003
101269246	52150161	60444460	1509	3907000	2004
128914115	67107106	60444460	1474	4046000	2005
160007261	55166762	60444460	1474	3967400	2006

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(6)

(14)

Ln Q	= -1.961	+ 1.162 Ln L	+ 0.402 Ln k	+ 0.154 D	
T		1.823	0.446		3.080
Sig		0.098	0.665		0.012
F		= 6.66	Sig = 0.009		
R <sup>2</sup>		= 0.666			
D-W		= 1.534			



1.823 (T)

%9

0.446 (T)

%1

6.66 (F)

%66.6

66.6

(R<sup>2</sup>)

D

D-W

(14)

(7)

:

TC	= 4.3 *10 <sup>7</sup>	+ 6.636 Q	+ 1.1*10 <sup>8</sup> D
T	0.089		3.606
Sig	0.931		0.004
F	= 10.626		Sig = 0.003
R <sup>2</sup>	= 0.659		
D-W	= 2.066		

t=0.089

.%1

,%1

F=10.626

%56.9

R<sup>2</sup>=65.9

D-W

D

( 14 )

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1949178	17435464	72450000	1952	1346020	1993
70421639	19366792	83317500	2134	1550209	1994
73365705	26253555	83317500	2205	1780004	1995
81535602	32938000	83317500	2236	1765328	1996
88040000	16923000	83317500	2238	1415675	1997
5229000	24105000	83317500	2287	1526948	1998
109394141	31372000	83317500	2316	1800190	1999
3677000	29454000	83317500	2293	1940000	2000
109793269	28242000	83317500	2201	1960000	2001
121066000	15392000	83317500	2195	1964000	2002
218000000	55919000	83317500	2305	1961000	2003
168431000	26718000	83317500	2232	1929000	2004
193600000	43053000	83317500	2173	1830000	2005
187400000	39139000	83317500	1986	1699000	2006

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 .81 1 25  
 1997  
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 .6 16  
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 . 534 12  
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